

Notice of Allowability

Application No.

10/803,643

Examiner

Brenda Pham

Applicant(s)

SONG ET AL.

Art Unit

2616

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 09/25/07.
2. ☒ The allowed claim(s) is/are 1-21.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some* c) ☐ None of the:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____

BRENDA PHAM
PRIMARY EXAMINER

Brenda A. Pham 1/4/08

REASONS FOR ALLOWANCE

1. Claims 1-21 allowed over prior art made of record.
2. The following is an examiner's statement of reasons for allowance: the prior arts made of record fail to teach in combination steps of constructing a GPON Transmission Convergence (GTC) frame that includes a physical control block downstream (PCBD) portion having an ONT management control channel (OMCC) field including: a destination identifier information for supporting a GPON encapsulation method (GEM mode), and a payload portion including data; and transmitting the GTC frame.

Prior arts fail to teach in combination constructing a GPON Transmission Convergence (GTC) frame that includes a physical control block downstream (PCBD) portion having an ONT management control channel (OMCC) field including a destination identifier information for supporting a ATM mode, and a payload portion including data; and transmitting the GTC frame.

Prior arts fail to teach in combination constructing a GPON Transmission Convergence (GTC) frame which includes a physical control block downstream (PCBD) portion having an ONT management control channel (OMCC) field including either destination identifier information for supporting one of a GPON encapsulation method GEM mode and a destination identifier information for supporting a ATM mode, and a payload portion in which data are included; and transmitting the GTC frame.

The prior arts made of record fails to teach a GTC frame structure for transmitting management control information between an optical network terminal (ONT) and an optical line termination (OLT) in a Gigabit-capable passive optical network, the structure

Application/Control Number:
10/803,643
Art Unit: 2616

Page 3

comprising: a physical control block downstream (PCBD) portion having an ONT management control channel (OMCC) field which includes destination identifier information for supporting one of a GPON encapsulation method (GEM mode) or a destination identifier information for supporting a ATM mode; and a payload portion including data.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Brenda Pham whose telephone number is (571) 272-3135. The examiner can normally be reached on Monday-Friday from 9:00 to 5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lynn D. Feild, can be reached on (571) 272-2092.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (571) 272-2600.

January 4, 2008
Brenda Pham



**BRENDA PHAM
PRIMARY EXAMINER**